

FIG. 1

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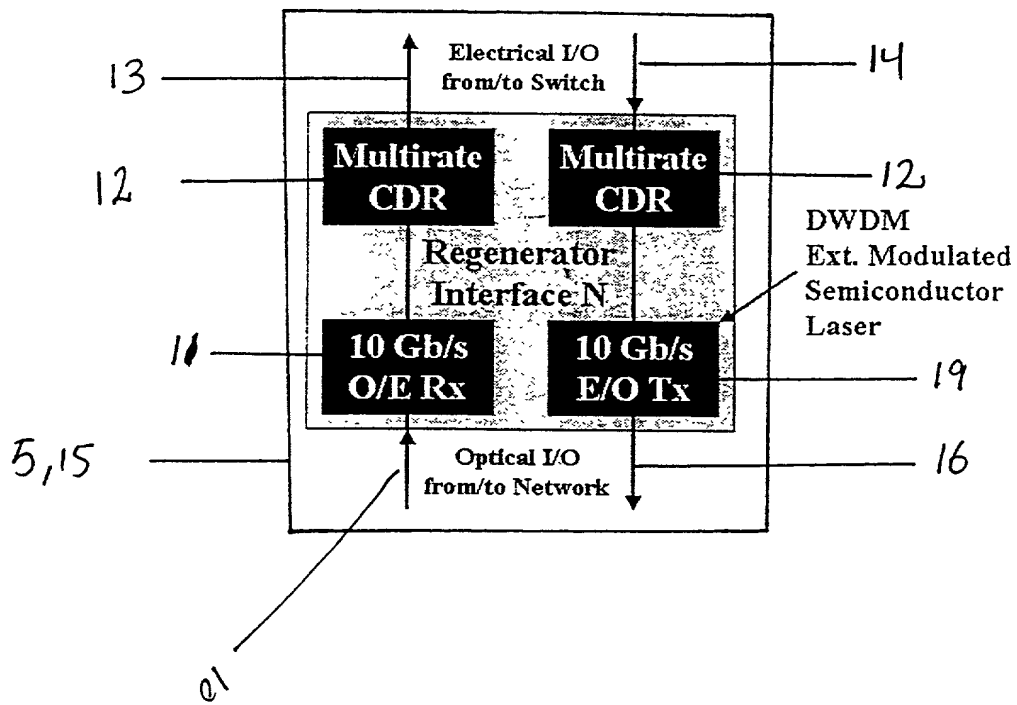


FIG. 2

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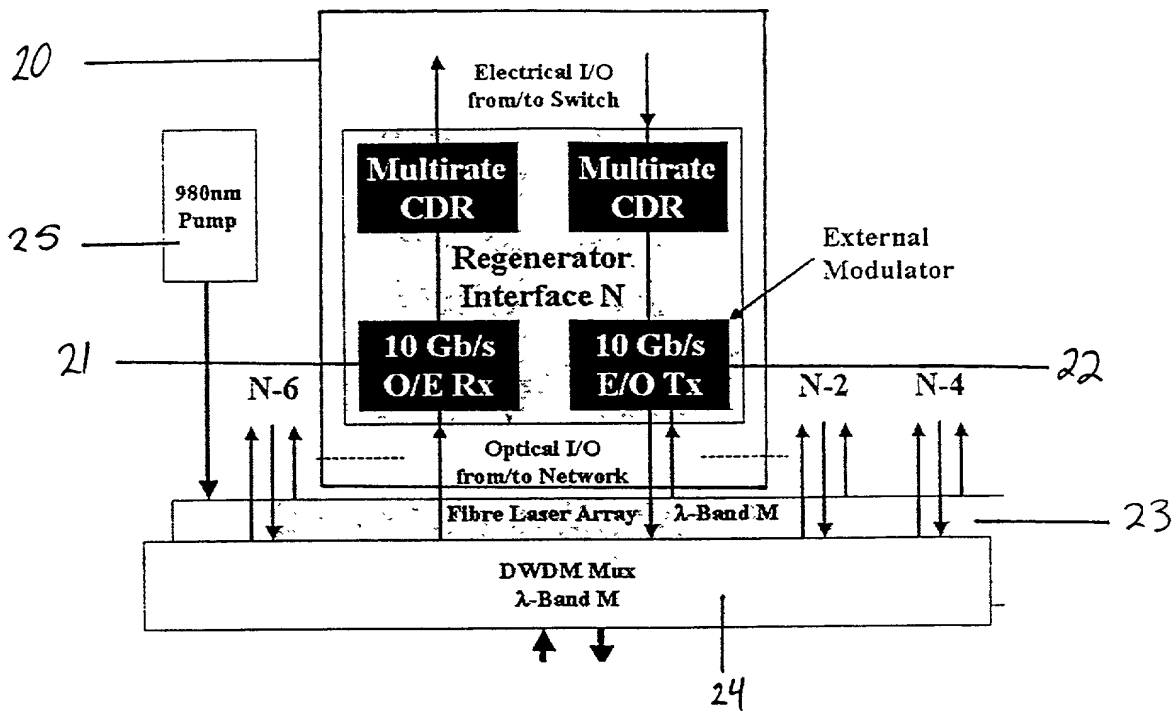
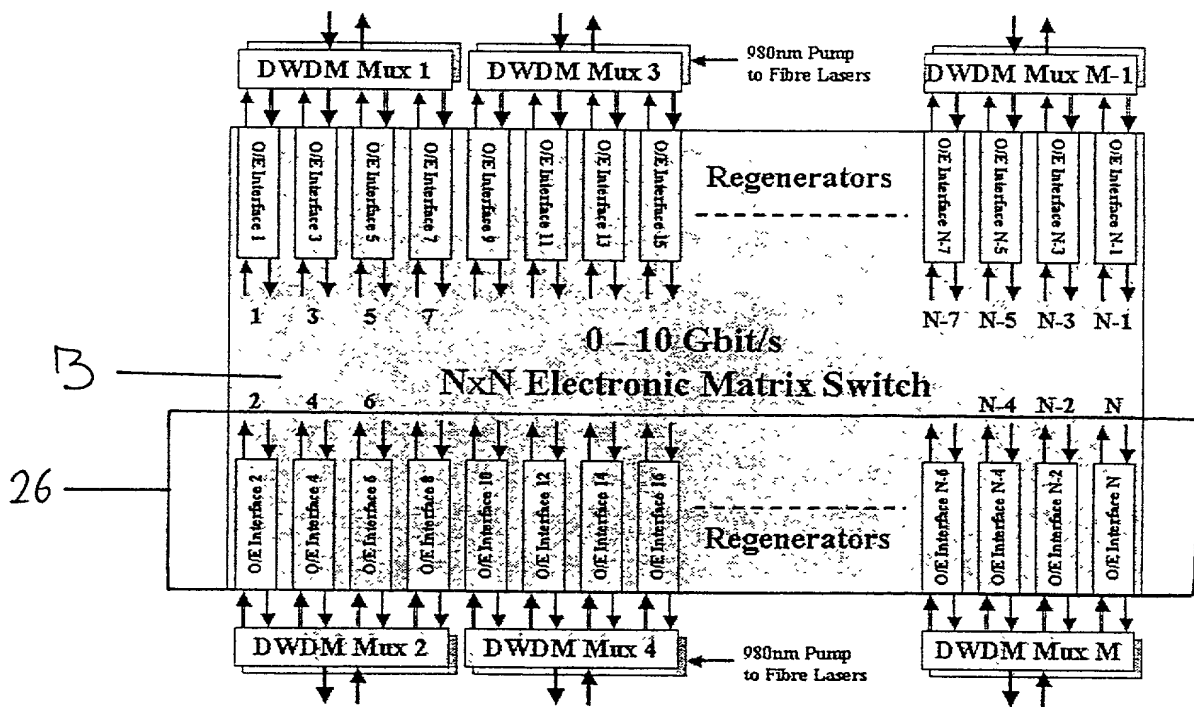


FIG. 3

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The diagram illustrates a multi-channel optical network architecture. At the top, a "Fibre Laser Array-1" provides input to a "DWDM Mux 1". The output of the DWDM Mux 1 is directed to a series of vertical components labeled "O/E Interface 1" through "O/E Interface N". These interfaces are connected to a central "N x N Electronic Matrix Switch" which operates at "0 - 10 Gbit/s". The switch has multiple input/output ports, some labeled "980nm Pump 1" through "980nm Pump N". The outputs of the switch are connected to another set of vertical components labeled "O/E Interface 1" through "O/E Interface N", which are then connected to a "Switch 2". The final output of Switch 2 is directed to a "Fibre Laser Array-2". Various reference numerals (e.g., 27, 29, 30, 32, 34, 38, 40, 42) point to specific components or signal paths within the system.

[illegible]